

पावर ग्रिड कारपोरेशन

Power Supply Position in Northern Region I
Date of Reporting : 30.06.2011

उत्तरी क्षेत्रीय भार प्रेष

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
31404	1200	32604	49.93	30890	100	30990	50.20	739.6	11.43

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Energy Details (At States periphery) in MUs:

UI [OD:(+ve), UD:(-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages (MU)
	Thermal+Gas	Hydro	Other	Total					
Punjab	35.7	21.9		57.6	89.7	87.4	-2.3	145.0	1.80
Haryana	50.6	0.5		51.1	54.7	57.0	2.3	108.1	0.00
Rajasthan	57.5	0.3	18.5	76.4	48.7	43.9	-4.7	120.3	0.00
Delhi	23.3	0.0		23.3	66.2	65.9	-0.3	89.2	0.05
UP	69.1	12.6		81.7	108.9	111.8	2.9	193.5	7.57
Uttarakhand		19.1		19.1	9.7	11.7	2.0	30.8	0.00
HP		21.7		21.7	0.5	-0.3	-0.7	21.5	0.41
J & K		15.2		15.2	13.8	11.0	-2.8	26.1	1.60
Chandigarh				0.0	5.6	5.0	-0.6	5.0	0.00
Total	236.1	91.4		346.1	397.8	393.5	-4.3	739.6	11.43

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import:(+ve), UD/Export:(-ve)]

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	6172	150	-674	1729	5893	0	97	2072	44.18
Haryana	4971	0	338	878	4714	0	-62	861	17.19
Rajasthan	5179	0	194	182	4917	0	-608	386	6.93
Delhi	3930	0	-63	318	3526	0	192	223	8.89
UP	7424	1050	59	409	8729	100	-26	859	18.05
Uttarakhand	1430	0	155	-38	1236	0	0	-25	-0.97
HP	855	0	-120	-1532	835	0	25	-1546	-35.62
J&K	1216	0	-131	-470	851	0	-215	-515	-12.04
Chandigarh	227	0	-2	45	189	0	-29	0	1.10
Total	31404	1200	-244	1521	30890	100	-626	2316	47.70

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Generation Details :

UI [OG:(+ve), UG:(-ve)]

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
		Singrauli	2000	1685	1817	1788	38.17	1591	37.52
	Rihand (I + II)	2000	1930	2002	1943	41.32	1722	40.82	0.50
	Dadri (Thermal-I+II)	1820	1750	1290	1288	29.91	1246	32	-2.09
	Unchahar I II & III	1050	999	1023	851	19.44	810	19.50	-0.06
	BTPS	705		485	490	10.50	438		
	Tanda	440		288	292	6.77	282		
	Jhajjhar	500	403	359	205	6.59	275	8.09	-1.50
	Dadri (Gas)	830	780	585	483	11.56	482	11.74	-0.18
	Anta (Gas)	419	392	249	234	5.61	234	5.69	-0.08
	Auraiya (Gas)	663	455	312	288	6.70	279	6.67	0.02
	Faridabad (Gas)	432		192	194	4.68	195		
	Sub Total (A)	10859	8394	8602	8056	181.25	7552	162.04	-2.74
B. NHPC	Chamera I	540	541	540	540	12.57	524	12.60	-0.03
	Chamera II	300	297	299	296	7.17	299	7.06	0.11
	Bairasiul	180	150	179	70	2.52	105	2.25	0.27
	Salal	690	620	628	624	14.92	622	14.91	0.01
	Tanakpur	94	90	93	93	2.17	91	2.24	-0.07
	Uri	480	476	476	476	11.50	479	11.47	0.03
	Dhauliganga	280	277	276	276	6.10	254	6.17	-0.07
	Dulhasti	390	387	408	262	8.70	362	8.43	0.27
	SEWA	120	79	84	0	0.80	33	0.82	-0.02
	Sub Total (B)	3074	2916	2983	2637	66.43	2768	65.94	0.49
C. Nathpa Jhakri		1500	1600	1611	1607	38.29	1596	38.38	-0.08
D. THDC	Tehri	1000	478	490	300	10.21	425	10.00	0.21
	Koteshwar	400	0	0.00	0.00	0.00	0	0.00	0.00
E. BBMB	Bhakra	1480	959	1076	968	23.60	983	23.03	0.57
	Dehar	990	606	660	660	15.34	639	14.55	0.80
	Pong	396	259	240	180	6.29	262	6.22	0.06
	Sub Total (E)	2866	1825	1976	1808	45	1885	43.80	1
F. NPC	NAPP	440	189	226	228	4.54	189	4.54	0.01
	RAPP A	300	182	173	172	4.29	179		
	RAPP B+RAPPC	880	807	884	908	19.28	804	19.37	-0.08
	Sub Total (F)	1620	1178	1283	1308	28.12	1172	23.90	-0.08
G. Ad Hydro PP		192	0	206	195	4.21	175	3.95	0.26
H. NLC	Barsingsar	250	0	0	0	0.00	0		
I. Total Cental (A-H)		21762	16390	17151	15911	374	15573	348	-1

H. States/ Others	Constituent	Capacity (MW)	Peak MW	Off Peak MW	Energy	Average(Sent out MW)
	Punjab(Th.)+PEDA	2683	1769	1514	35.7	1486
	Punjab(Hy.)	1148	792	718	21.9	913
	Haryana(Th.)+Magnum	3193	2074	1828	45.9	1912
	Haryana(Hy.)	62	0	46	0.5	22
	Rajasthan(Th.) +GT+BM	4395	2221	2198	53.2	2219
	Rajasthan(Hy.)	550	0	27	0.3	14
	UP (Th.) + Cogeneration	5560	2734	2563	62.3	2595
	UP (Hy.)+Visnuprayag	927	109	526	12.6	525
	Uttarakhand (Hy.)	1368	804	835	19.1	797
	Delhi (Th.)+Gas	819	554	528	12.8	534
	HP (Hy.)+Baspa+Malana	971	872	775	21.7	905
	J & K (Hy. + GT)	965	642	643	15.2	632
	Rajasthan(RE-Wind)	1084	871.00	954.00	18.5	772
	Sub Total (H)	23725	13442	13155	319.9	13327
I. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1827	2588	49.7	2070
Grand Total Generation			45486	32420	31654	743.29

IV. Total Hydro Generation:

Central +BBMB Hydro	8841	7060	6352	160	6674
State Hydro	6422	4090	4524	91.4	4582
Regional Hydro	15263	11150	10876	251.6	11255

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	100	250	250	0	5.28	0.00	5.28
Aur - Minpur/Mhgaon	-29	-28	77	103	0.00	0.00	0.00
Agra-Gwalior (D/C)	820	933	1160	0	19.93	0.00	19.93
Kota/Morak-Badod	-29	49	103	77	0.43	0.00	0.43
Kankroli-Zerda	101	77	114	466	0.00	3.93	-3.93
Sub Total WR	963	1281			25.64	3.93	21.71
GKP - MZP (D/C)	741	760	1008	0	18.04	0.00	18.04
Sasaram B/B	-5	-22	108	165	0.60	0.73	-0.12
Sahupuri - Pusauli	138	124	170	0	3.25	0.00	3.25
Sahupuri - K'nasa	0	0	0	0	0.00	0.00	0.00
Rihand - Son Ngr	-10	-5	0	25	0.00	0.01	-0.01
Rihand - Garhwa	0	0	0	0	0.00	0.00	0.00
Balia-Patna(D/C)	0	-108	0	123	0.00	2.50	-2.50
Balia-B'Sharif (D/C)	425	558	558	0	9.32	0.00	9.32
Sub Total ER	864	1307			31.22	3.24	27.98
Total IR Exch	1827	2588			56.85	7.16	49.69

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
13.39	3.32	16.71	15.86	31.43	-2.45	-2.18	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
30.12	29.12	59.23	27.98	21.71	49.69	-2.14	-7.41	-9.54

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.30	1.60	90.90	89.60	54.00	8.80

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					50.36	0
Freq	Time	Freq	Time	Hz			0	0
50.39	7.07	49.38	19.41	50.01	0.21	0.14	50.27	49.65

VII. Voltage profile

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	420	04:04	409	00:04	0.0	0.0	0.0	0.00
Gorakhpur	400	437	03:04	417	22:13	0.0	0.0	95.6	22.28
Kanpur	400	424	04:01	408	00:00	0.0	0.0	12.5	0.00
Dadri	400	414	07:03	401	00:00	0.0	0.0	0.0	0.00
Ballabgarh	400	420	04:01	402	14:52	0.0	0.0	0.0	0.00
Bassi	400	432	04:01	413	14:50	0.0	0.0	65.0	0.67
Hissar	400	412	03:48	399	14:48	0.0	0.0	0.0	0.00
Moga	400	416	07:58	401	14:56	0.0	0.0	0.0	0.00
Kishenpur	400	416	03:55	402	14:56	0.0	0.0	0.0	0.00
Waqoora	400	410	03:48	391	20:17	0.0	0.0	0.0	0.00

VIII. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	485.99	656.27	463.88	61.03	599.33	395.10
Pong	426.72	384.05	411.91	561.15	390.38		705.26	330.00
Tehri	829.79	740.04	755.65	91.11				
Rihand	268.22	252.98	256.25		253.69			
RSD	527.91	487.91						

IX. System Constraints:**X. Grid Disturbance / Any Other Significant Event:****XI. Weather Conditions For 29.06.2011 :**

Scattered Rain in some parts of Punjab ,NCR ,HP and western UP

XII. Synchronisation of new generating units :**XIII. Synchronisation of new 400 / 765 KV lines and energising of bus / /substation :****XIV. Tripping of lines in pooling stations :****XV. Complete generation loss in a generating station :**